



US-1000

AI-Libre Urinalysis Analyzer

Refined Perfection, Now Even Smaller!

Fully Automated AI-Libre Urinalysis Analyzer

- 300 T/H for chemistry analysis
- 80 T/H for sediment analysis
- 80 T/H for both chemistry and sediment analysis

Compact, all in one design

AI Technology (CNN, Deep Learning)



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Guilin, China

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AI-Libre Urinalysis Analyzer

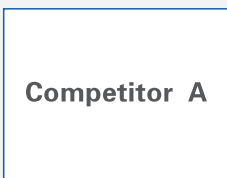


Smallest All-in-one Urinalysis Analyzer

- 530mm by length only
- Save valuable laboratory space

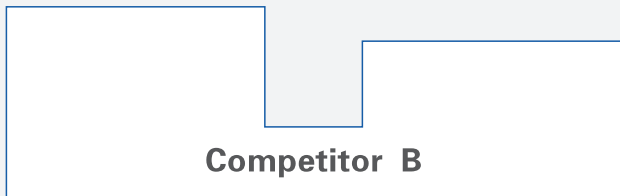


530mm



Competitor A

800mm



Competitor B

2200mm



All in One

- Chemistry, sediment and physical analysis in one analyzer
- One aspiration, complete results
- Robust yet compact



Less is More

- Routine consumption: sheath, detergent and strip only
- Minimum sample volume 1.5~2.0mL
 - Chemistry analysis: 1.5mL
 - Sediment analysis: 2.0mL
 - Both: 2.0mL



Good and Better

- Integrated tube rotator realizing full angle bar code scanning function
- Optional refractometer to provide more physical parameters (SG, Turbidity, Color)
- Optional conductivity module to provide conductivity and osmolality



Smart and Smarter

- DIY print template modification software integrated
- Intelligent abnormal sample flag
- Bi-directional LIS to follow LIS order to test chemistry, sediment or both flexibly
- Automatic QC function

Throughput

80~300 T/H
• 300 T/H for chemistry analysis
• 80 T/H for sediment analysis
• 80 T/H for both

Sample

Nature urine

Minimum Sample Volume

1.5mL for chemistry analysis;
2mL for sediment analysis;
2mL for both

Sample Position

50

Display

Integrated 10.4-inch touch screen and also PC screen

Results Storage

1 million dry chemistry results; 500,000 strip image; 400,000 sediment results

Communication

LAN, USB x 3, RS-232, VGA

Working Temperature

5~40℃

Power Supply

100V~240V~, 50/60Hz

Dimension

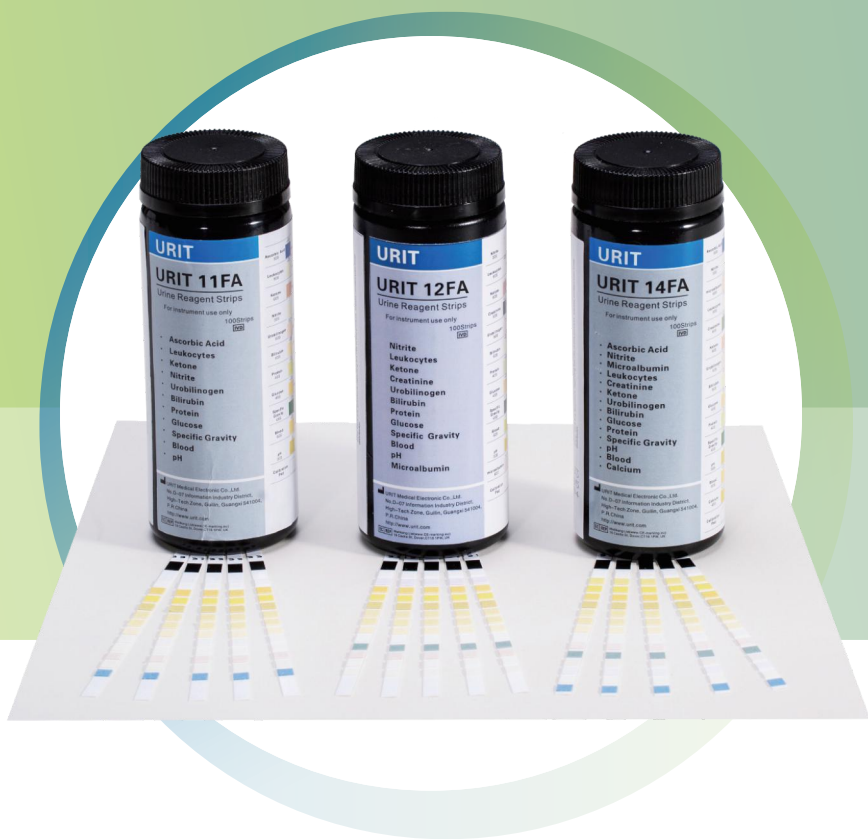
530 mm(L) x 650 mm(W) x 695 mm(H)

Instrument Weight

63 kg

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Chemistry Analysis Part



Advanced CIS Imaging System

- High accuracy and high efficiency
- Real strip image display
- 5 wavelengths detection guarantees precise and confident results



High Speed

- 300 T/H for chemistry analysis only
- 80 T/H for sediment analysis and both chemistry & sediment analysis



Physical Module

- Improve test accuracy of urine specific gravity, turbidity and color
- Conductivity and osmolality



Bar Code Scanning Function

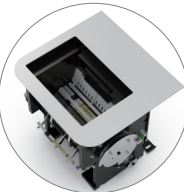
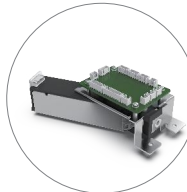
- High rate bar code scanning identification
- Full angle bar code scanning
- Shift test mode by scanning bar code through bi-directional LIS



16 Items Strips Parameters

- 14 test items including VitC, CR, MA and CA
- Albumin-to-Creatinine Ratio (ACR) and Protein-to-Creatinine Ratio (PCR) help to screen early kidney disease
- Compensation pad can eliminate urine color interference

Principle	CIS color detecting system, 5 wavelengths colorimetry method, refraction method
Parameters	Strip parameters: <ul style="list-style-type: none">• 11F/11FA/11FU: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC• 12F/12FA/12FU: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, MA, CRE• 14F/14FA/14FU: LEU, KET, NIT, URO, BIL, PRO, GLU, SG, BLD, pH, VitC, MA, CRE, CA System parameters: PCR, ACR(12F/12FA/12FU,14F/14FA/14FU) 5 Physical parameters: Color, Turbidity, SG, Osmolality, Conductivity
Strips	F, FA, FU Series (strips series are preset by manufacturer before delivery)
Strip Cabin Capacity	500





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Sediment Analysis Part



Urine Sediment Analysis

- Flowcell digital imaging automatic identification
- High speed data acquisition card



AI Technology

- Deep learning system
- Multi-layer neural network (CNN), more intelligent
- Expanded learning and migration learning technology, more compatible



High Speed & Reliability

- 80 T/H constant speed for sediment analysis
- To be fast but never compromising on high resolution pictures and reliable results



High Resolution Pictures

- Innovated video replay for each sample
- 400 times magnified image
- Guarantee the recognition accuracy rate



Consolidation of Urine Work Area

- New generation report interface
- Full report covers physical examination results, dry chemistry results, sediment results, RBC phase information and real strip image

Principle

AI recognition technology, flat sheath flow technology, digital imaging technology

Parameters

38+ Urine sediment parameters

RBC, DRBC (G1, Coin, Ghost, Big RBC cells, Small RBC cells), WBC, Phagocyte, WBCC, SQEP, NSE (TREP, REP), HYA, PAT (GRAN, WAXY, CELL, BLOOD, MIX), CAOX (CaOxm, CaOxd), URIC, STRUVITE, AMOR, OTCRY (CaPh, MUCR, CYCY, LECR, CHCR), BACT (Cocci, Scoccus, Bacilli), YST, Hyphae, OTFNG (FUSA), MUCS, SPRM, LIP, BUBBLE, OTHER and more are coming soon...

RBC phase detection

MCV, RDW, abnormal RBC ratio

Integrate urine dry chemistry results

Video Replay

Yes

Lens

40X

Report Unit

xx/uL, xx/HPF, xx/LPF, plus system

